

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|---|------------------|---------|---------------------|
| L1 | 3719 | 257/690 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 12:53 |
| L2 | 2276 | 257/693 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 12:55 |
| L3 | 1392 | 257/696 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 13:14 |
| L4 | 3577 | 257/692 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 13:25 |
| L5 | 282 | 257/694 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 13:40 |
| L6 | 338 | 257/695 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 14:07 |
| L7 | 5549 | 257/686 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 14:10 |
| L8 | 4943 | 257/777 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 14:13 |

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|-----|------|---|---|----|-----|---------------------|
| L9 | 7178 | 257/778 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 14:28 |
| L10 | 1680 | 257/781 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 14:42 |
| L11 | 3785 | 257/784 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 14:56 |
| L12 | 1958 | 257/685 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 15:26 |
| S1 | 6 | "20020106833" or "6507106".pn. or "5646446".pn. or "5777391".pn. or "20020160598" | US-PGPUB; USPAT | OR | OFF | 2008/01/10 19:09 |
| S2 | 2344 | 257/777 and wire | USPAT | OR | OFF | 2008/01/10 19:10 |
| S3 | 2624 | 257/777 and wire | USPAT | OR | ON | 2008/01/10 19:10 |
| S4 | 1046 | 257/777 and wire and (chip or dice or die or IC or semiconductor) with opposit\$3 | USPAT | OR | ON | 2008/01/10 19:16 |
| S5 | 86 | (chip or dice or die or IC or semiconductor) with ("C" or "U") near shape with wir\$3 | USPAT | OR | ON | 2008/01/10 20:44 |
| S6 | 7 | ("20010054762" "5347159" "5801439" "6329708" "6376769" "6876074" "6998704"). PN. OR ("7196418").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 19:26 |
| S7 | 24 | ("3873173" "4595794" "4692790" "4895523" "5395253" "5420461" "5433631" "5619067"). PN. OR ("6151220").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 19:29 |

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| S8 | 14 | ("3533023" "3766439" "3911234" "4550357" "4956695" "5128744" "5382829").PN. OR ("5534727").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 19:24 |
| S9 | 24 | ("5714405" "5805422" "5895970" "6002167" "6165817").PN. OR ("6329708").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 19:33 |
| S10 | 26 | ("4780098" "5198888" "5426072" "5432378" "5440452" "5656856" "5714405" "5801439" "5818107" "5895970" "5903437" "5977640" "6002167" "6002177" "6013948" "6014316" "6147398" "6151220" "6222212" "6252300" "6261136" "6329708" "6340845" "6376769" "6376904").PN. OR ("6984885").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 19:38 |
| S11 | 29 | ("3294988" "5714405"). PN. OR ("5895970").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 19:43 |
| S12 | 9 | ("5081520" "5224021" "5397916" "5413970" "5663596" "5801439"). PN. OR ("6147398").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 19:55 |
| S13 | 18 | ("4433892").PN. OR ("4780098").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:02 |
| S14 | 19 | ("20010015652" "20010022396" "5394303" "5895970" "6022759" "6028365" "6225688" "6300679" "6441476").PN. OR ("6646335").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 19:48 |
| S15 | 91 | ("4721995" "4783594" "5072283" "5220198" "5285107" "5332921" "5347159" "5363275" "5382829" "5397916" "5408172" "5448511" "5534727" "5567657" "5646446" "5659198" "5661086" "5684677" "5708297" "5763939" "5767570" "5776797" "5789815" "5805422" "5831627" "5886876" "5925930" "5980270" "6002168" "6002590" "6014316").PN. OR | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:04 |

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| | | ("6300679").URPN. | | | | |
| S16 | 22 | ("4635093" "4682270" "4691225" "4864470" "5281852" "5311402" "5703398" "5747874"). PN. OR ("6022759").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 19:52 |
| S17 | 49 | ("3417193" "4266282" "4365284" "4426689" "4473868" "4568796" "4586764" "4673967" "4701830" "4722027" "4785533" "4801916" "4870224" "5041903" "5043791").PN. OR ("5224021").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:02 |
| S18 | 49 | ("3417193" "4266282" "4365284" "4426689" "4473868" "4568796" "4586764" "4673967" "4701830" "4722027" "4785533" "4801916" "4870224" "5041903" "5043791").PN. OR ("5224021").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:00 |
| S19 | 7 | ("20010006252" "20010040793" "20030020153" "20040104470" "6300679" "6323060" "6351029").PN. OR ("7148087").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:16 |
| S20 | 32 | ("3760090" "3780352" "3888639" "4449769" "4599636" "4817280" "4914259" "4935584" "5004639" "5128831" "5142448" "5239448" "5384691" "5448511" "5508565" "5604379" "5637828" "5776797" "5789815" "5793108" "5804874" "5977640" "6014316" "6084294" "6118176" "6121676" "6208521" "6225688" "6252176" "6300679"). PN. OR ("6977441").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:17 |

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| S21 | 132 | ("20020006032" "20020101261" "20020139577" "20020164838" "20020180022" "3436604" "3654394" "3727064" "3746934" "3772776" "4103318" "4288841" "4398235" "4406508" "4437235" "4513368" "4645944" "4696525" "4733461" "4763188" "4821007" "4823234" "4833568" "4862249" "4884237" "4891789" "4911643" "4953060" "4956694" "4983533" "4985703" "5012323" "5016138" "5034350" "5041015" "5099393" "5104820" "5138430" "5159434" "5198888" "5222014" "5224023" "5239198" "5241454" "5247423" "5259770" "5261068" "5262927" "5279029" "5281852" "5289062" "5311401" "5313097" "5343075" "5347428" "5375041" "5377077" "5394010" "5402006" "5420751" "5428190" "5446620" "5455740" "5475920" "5479318" "5484959" "5493476" "5499160" "5514907" "5523619" "5541812" "5543664" "5561591" "5566051" "5572065" "5592364" "5612570" "5631193" "5644161" "5654877" "5776797" "5778522" "5801437" "5805422" "5828125" "5835988" "5869353" "5926369" "5949657" "5953215" "6014316" "6025642" "6028352" "6028365" "6072233" "6097087" "6172874" "6205654" "6208521" "6225688" "6233650" "6262476" "6262895" "6265660" "6266252" "6281577" "6300679" "6323060" "6351029" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:19 |
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| | | "6368896" "6392162" "6410857" "6426240" "6426549" "6433418" "6444921" "6446158" "6462412" "6465877" "6465893" "6473308" "6486544" "6514793"). PN. OR ("6560117" "6572387" "6590282" "6600222" "6620651" "6657134" "RE36916"). PN. OR ("6940729").URPN. | | | | |
| S22 | 49 | ("5159535" "5450283" "5578525" "5646446" "5773882" "5783870" "5949142" "5969426" "6071755" "6075287" "6208521" "6324067"). PN. OR ("6486544").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:35 |
| S23 | 10 | ("20040021139" "5646446" "6028365" "6225688" "6329712" "6486544" "6576992" "6633078").PN. OR ("6924551").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:42 |
| S24 | 3703 | (chip or dice or die or IC or semiconductor) with ("C" or "U") with wir\$3 | USPAT | OR | ON | 2008/01/10 20:43 |
| S25 | 199 | (chip or dice or die or IC or semiconductor) with ("C" or "U") with shape with wir\$3 | USPAT | OR | ON | 2008/01/12 20:41 |
| S26 | 113 | S25 not S5 | USPAT | OR | ON | 2008/01/10 20:44 |
| S27 | 50 | (chip or dice or die or IC or semiconductor) with ("C" or "U") near shape with lead | USPAT | OR | ON | 2008/01/10 20:49 |
| S28 | 14 | ("4677458" "5177326" "5317479" "5347159" "5536909" "5568363" "5731631" "5789804" "5789809").PN. OR ("6087716").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 20:47 |
| S29 | 614 | (chip or dice or die or IC or semiconductor) and ("C" or "U") near shape with wir\$3 | USPAT | OR | ON | 2008/01/10 20:50 |
| S30 | 521 | S29 not S25 | USPAT | OR | ON | 2008/01/10 20:50 |

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| S31 | 15 | ("3349481" "4794092" "5311401" "5347159" "5808872" "5818107" "5918113" "5925928" "6180435" "6198165" "6268648" "6284067"). PN. OR ("6346432").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/12 18:40 |
| S32 | 9 | ("4491377" "4618199" "4869674" "5108302" "5772451" "6016254" "6124720" "6229209" "6232149").PN. OR ("6367763").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/10 21:28 |
| S33 | 5339 | 257/666 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 18:42 |
| S34 | 3291 | 257/690 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 20:21 |
| S35 | 2 | "6576992".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 19:05 |
| S36 | 2 | "20030081392" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 19:05 |
| S37 | 3329 | 257/692 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 20:50 |
| S38 | 340 | (chip or dice or die or IC or semiconductor) and (interposer or interconnect \$3 or redistribut\$3) and ("C" or "U") with shape with wir\$3 | USPAT | OR | ON | 2008/01/12 20:50 |

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|-----|------|--|---|----|-----|---------------------|
| S39 | 2084 | 257/693 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 21:15 |
| S40 | 103 | (chip or dice or die or IC or semiconductor) and (interposer or interconnect \$3 or redistribut\$3) same back near back | USPAT | OR | ON | 2008/01/12 21:06 |
| S41 | 171 | (chip or dice or die or IC or semiconductor) and (board or carrier) same back near back | USPAT | OR | ON | 2008/01/12 21:56 |
| S42 | 329 | (chip or dice or die or IC or semiconductor) and (substrate) same back near back | USPAT | OR | ON | 2008/01/12 20:57 |
| S43 | 75 | ("3539455" "3542662" "4180771" "4252123" "4365639" "4431004" "4474827" "4484987" "4592824" "4608097" "4627906" "4636827" "4660571" "4671288" "4703756" "4759828" "4781798" "4836907" "4869755" "4877032" "4890620" "4935345" "4969468" "4975175" "5007424" "5016631" "5067491" "5165407" "5174291" "5186169" "5190041" "5207103" "5215088" "5314458" "5318596" "5322063" "5324316" "5325870" "5330634" "5358514" "5388577" "5403700" "5441739" "5463246" "5470348" "5476094" "5497772" "5508368" "5514103" "5527200" "5571148" "5571166" "5582698" "5593430" "5603726" "5651367" "5660163" "5693577" "5694932" "5707502" "5711861" "5727548" "5750926" "5755759" "5791344" "5928277" "5951605" "5965452" "5972739" "5999848" "6041496" "6119028") | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/12 21:05 |

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| | | "6259937").PN. OR ("7079881").URPN. | | | | |
| S44 | 30026 | (chip or dice or die or IC or semiconductor) and (interposer or interconnect \$3 or redistribut\$3) same wir\$3 | USPAT | OR | ON | 2008/01/12 21:07 |
| S45 | 7005 | (chip or dice or die or IC or semiconductor) and (interposer or interconnect \$3 or redistribut\$3) same wire near bond\$3 | USPAT | OR | ON | 2008/01/12 21:07 |
| S46 | 2848 | (chip or dice or die or IC or semiconductor) with (interposer or interconnect \$3 or redistribut\$3) with wire near bond\$3 | USPAT | OR | ON | 2008/01/12 21:07 |
| S47 | 32 | ("3760090" "3780352" "3888639" "4449769" "4599636" "4817280" "4914259" "4935584" "5004639" "5128831" "5142448" "5239448" "5384691" "5448511" "5508565" "5604379" "5637828" "5776797" "5789815" "5793108" "5804874" "5977640" "6014316" "6084294" "6118176" "6121676" "6208521" "6225688" "6252176" "6300679"). PN. OR ("6977441").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/12 21:13 |
| S48 | 273 | 257/694 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 21:33 |
| S49 | 17 | ("5072331" "5140745" "5239448" "5258648" "5598033" "5677575" "5776797" "6157541" "6225688").PN. OR ("6670700").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/12 21:18 |
| S50 | 312 | 257/695 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 21:36 |

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|-----|------|---|---|----|-----|---------------------|
| S51 | 1293 | 257/696 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 21:50 |
| S52 | 4679 | 257/686 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 21:55 |
| S53 | 4229 | 257/777 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 22:21 |
| S54 | 2 | 257/777 and (chip or dice or die or IC or semiconductor) with (other or second or another) near (chip or dice or die or IC or semiconductor) with (distance or pitch) same (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 21:59 |
| S55 | 0 | stacked near (chip or dice or die or IC or semiconductor) with (other or second or another) near (chip or dice or die or IC or semiconductor) with (distance or pitch) same (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 21:59 |
| S56 | 0 | stacked near (chip or dice or die or IC or semiconductor) with (other or second or another) near (chip or dice or die or IC or semiconductor) with (distance or pitch) and (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 21:59 |

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|-----|----|--|------------------------|----|-----|------------------|
| S57 | 0 | stacked near (chip or dice or die or IC or semiconductor) with (other or adjacent or second or another) near (chip or dice or die or IC or semiconductor) with (distance or pitch) and (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 22:00 |
| S58 | 16 | stacked near (chip or dice or die or IC or semiconductor) with (distance or pitch) and (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 22:00 |
| S59 | 1 | array with stacked near (chip or dice or die or IC or semiconductor) with (distance or pitch) and (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 22:01 |
| S60 | 0 | multi\$3 with stacked near (chip or dice or die or IC or semiconductor) with (distance or pitch) and (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 22:01 |
| S61 | 0 | multi\$3 with stacked near (chip or dice or die or IC or semiconductor) same (distance or pitch) and (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 22:01 |
| S62 | 5 | multi\$3 with stacked near (chip or dice or die or IC or semiconductor) with (distance or pitch) | USPAT | OR | ON | 2008/01/12 22:02 |
| S63 | 7 | module with stacked near (chip or dice or die or IC or semiconductor) with (distance or pitch) | USPAT | OR | ON | 2008/01/12 22:05 |
| S64 | 19 | ("5675180" "5837566" "5843807" "5891761" "6168973" "6177296").PN. OR ("6835598").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/01/12 22:04 |
| S65 | 91 | stacked near (chip or dice or die or IC or semiconductor) with (distance or pitch) | USPAT | OR | ON | 2008/01/12 22:09 |

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| S66 | 6 | array with stacked near (chip or dice or die or IC or semiconductor) with (distance or pitch) | USPAT | OR | ON | 2008/01/12 22:10 |
| S67 | 17 | array with stacked near (chip or dice or die or IC or semiconductor) same (distance or pitch) | USPAT | OR | ON | 2008/01/12 22:11 |
| S68 | 0 | stacked near (chip or dice or die or IC or semiconductor) with neighbor same (distance or pitch) | USPAT | OR | ON | 2008/01/12 22:12 |
| S69 | 0 | stacked near (chip or dice or die or IC or semiconductor) same neighbor same (distance or pitch) | USPAT | OR | ON | 2008/01/12 22:12 |
| S70 | 319 | (chip or dice or die or IC or semiconductor) same neighbor same (distance or pitch) | USPAT | OR | ON | 2008/01/12 22:12 |
| S71 | 9 | (chip or dice or die or IC or semiconductor) same neighbor same (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 22:15 |
| S72 | 481 | (chip or dice or die or IC or semiconductor) with between with (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 22:16 |
| S73 | 29 | array with (chip or dice or die or IC or semiconductor) with between with (distance or pitch) with (microns or micrometers) | USPAT | OR | ON | 2008/01/12 22:17 |
| S74 | 99 | array with (chip or dice or die or IC or semiconductor) with between with (distance or pitch) with (microns or micrometers or width) | USPAT | OR | ON | 2008/01/12 22:20 |
| S75 | 0 | stacked with (chip or dice or die or IC or semiconductor) with (module or MCM) with (distance or pitch) with (microns or micrometers or width) | USPAT | OR | ON | 2008/01/12 22:21 |

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|-----|------|---|---|----|-----|---------------------|
| S76 | 113 | stacked with (chip or dice or die or IC or semiconductor) with (module or MOM) and (distance or pitch) with (microns or micrometers or width) | USPAT | OR | ON | 2008/01/12 22:30 |
| S77 | 6396 | 257/778 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 22:34 |
| S78 | 52 | stacked with package with (module or MOM) and (distance or pitch) with (microns or micrometers or width) | USPAT | OR | ON | 2008/01/12 22:30 |
| S79 | 1521 | 257/781 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 23:18 |
| S80 | 14 | 257/E31.117 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 23:20 |
| S81 | 4 | 257/E31.111 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 23:29 |
| S82 | 12 | 257/E23.012 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/01/12 23:29 |

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| S83 | 28 | (("20030062614" "20040042190" "4851613" "5128831" "5148266" "5252857" "5266912" "5323060" "5585675" "5600183" "5604377" "5682061" "5818107" "5889652" "5900738" "5994166" "6002590" "6014320" "6020749" "6097611" "6121676" "6225688" "6281577" "6300679" "6444921" "6473308" "6699730").PN. OR ("6982869").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 13:58 |
| S84 | 32 | (("3760090" "3780352" "3888639" "4449769" "4599636" "4817280" "4914259" "4935584" "5004639" "5128831" "5142448" "5239448" "5384691" "5448511" "5508565" "5604379" "5637828" "5776797" "5789815" "5793108" "5804874" "5977640" "6014316" "6084294" "6118176" "6121676" "6208521" "6225688" "6252176" "6300679"). PN. OR ("6977441").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 13:59 |
| S85 | 132 | (("20020006032" "20020101261" "20020139577" "20020164838" "20020180022" "3436604" "3654394" "3727064" "3746934" "3772776" "4103318" "4288841" "4398235" "4406508" "4437235" "4513368" "4645944" "4696525" "4733461" "4763188" "4821007" "4823234" "4833568" "4862249" "4884237" "4891789" "4911643" "4953060" "4956694" "4983533" "4985703" "5012323" "5016138" "5034350" "5041015" "5099393" "5104820" "5138430" "5159434" "5198888" "5222014" "5224023" "5239198" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 13:59 |

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| | | "5241454" "5247423" "5259770" "5261068" "5262927" "5279029" "5281852" "5289062" "5311401" "5313097" "5343075" "5347428" "5375041" "5377077" "5394010" "5402006" "5420751" "5428190" "5446620" "5455740" "5475920" "5479318" "5484959" "5493476" "5499160" "5514907" "5523619" "5541812" "5543664" "5561591" "5566051" "5572065" "5592364" "5612570" "5631193" "5644161" "5654877" "5776797" "5778522" "5801437" "5805422" "5828125" "5835988" "5869353" "5926369" "5949657" "5953215" "6014316" "6025642" "6028352" "6028365" "6072233" "6097087" "6172874" "6205654" "6208521" "6225688" "6233650" "6262476" "6262895" "6265660" "6266252" "6281577" "6300679" "6323060" "6351029" "6368896" "6392162" "6410857" "6426240" "6426549" "6433418" "6444921" "6446158" "6462412" "6465877" "6465893" "6473308" "6486544" "6514793"). PN. OR ("6560117" "6572387" "6590282" "6600222" "6620651" "6657134" "RE36916"). PN. OR ("6940729").URPN. | | | | |
| S86 | 55 | ("5159535" "5450283" "5578525" "5646446" "5773882" "5783870" "5949142" "5969426" "6071755" "6075287" "6208521" "6324067"). PN. OR ("6486544").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 14:00 |
| S87 | 7 | ("6147401" "6486544" "6576992" "6727431" "6765236" "6765288"). PN. OR ("7071567").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 14:01 |

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| S88 | 11 | ("20020088987" "20020134988" "3283207" "3508100" "6396082").PN. OR ("6765236").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 14:08 |
| S89 | 19 | ("6219074" "6274890").PN. OR ("6396082").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 14:09 |
| S90 | 246 | (chip or dice or die or IC or semiconductor) with ("C" or "U") near shap\$3 with wir\$3 | USPAT | OR | ON | 2008/07/29 16:06 |
| S91 | 7 | ("20010054762" "5347159" "5801439" "6329708" "6376769" "6876074" "6998704").PN. OR ("7196418").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 16:07 |
| S92 | 24 | ("3873173" "4595794" "4692790" "4895523" "5395253" "5420461" "5433631" "5619067").PN. OR ("6151220").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 16:10 |
| S93 | 27 | ("5714405" "5805422" "5895970" "6002167" "6165817").PN. OR ("6329708").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 16:14 |
| S94 | 33 | ("3294988" "5714405").PN. OR ("5895970").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 16:22 |
| S95 | 32 | ("4994411" "5068712").PN. OR ("5714405").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 16:22 |
| S96 | 3820 | (chip or dice or die or IC or semiconductor) with ("C" or "U") with wir\$3 | USPAT | OR | ON | 2008/07/29 16:28 |
| S97 | 110 | stack\$3 with (chip or dice or die or IC or semiconductor) with ("C" or "U") with wir\$3 | USPAT | OR | ON | 2008/07/29 16:28 |
| S98 | 108 | S97 not S90 | USPAT | OR | ON | 2008/07/29 16:28 |
| S99 | 13 | ("20030025211" "20030111736" "20030113998" "20040238936" "5384690" "5620782" "5933712" "6180881" "6236565" "6426549" "6514793" "6576992" "6627984").PN. OR ("7291907").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 16:30 |

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|------|-----|--|---------------------------|----|-----|---------------------|
| S100 | 177 | (interposer or transparent \$3 or translucent\$3 or glass) with (chip or dice or die or IC or semiconductor) with ("C" or "U") with wir\$3 | USPAT | OR | ON | 2008/07/29 16:36 |
| S101 | 270 | (interposer or transparent \$3 or translucent\$3 or glass) same (chip or dice or die or IC or semiconductor) with ("C" or "U") with wir\$3 | USPAT | OR | ON | 2008/07/29 16:44 |
| S102 | 93 | S101 not S100 | USPAT | OR | ON | 2008/07/29 16:45 |
| S103 | 145 | (interposer or transparent \$3 or translucent\$3 or glass) with (chip or dice or die or IC or semiconductor) with (around\$3 or surround\$3) with wir\$3 | USPAT | OR | ON | 2008/07/29 16:48 |
| S104 | 368 | (interposer or transparent \$3 or translucent\$3 or glass) with (chip or dice or die or IC or semiconductor) with cover \$3 with wir\$3 | USPAT | OR | ON | 2008/07/29 16:54 |
| S105 | 28 | ("20020043706" "20020089044" "20020093078" "5087964" "5161009" "5266828" "5352852" "5463229" "5598033" "5608262" "5786589" "5867368" "6144507" "6255769" "6342406" "6396043" "6400075" "6472761" "6538322" "6566745" "6571466" "6646335" "6656768" "6765288" "6864116" "6885107" "6964886"). PN. OR ("7122390").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 17:00 |
| S106 | 10 | ("5729437" "6384472" "6455774" "6476469" "RE36614").PN. OR ("6649834").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 17:08 |
| S107 | 45 | ("5729437").URPN. | USPAT | OR | OFF | 2008/07/29 17:18 |

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| S108 | 864 | (interposer or transparent \$3 or translucent\$3 or glass) with (substrate or lid or cap) and (substrate or cap or lid) with (chip or dice or die or IC or semiconductor) with cover \$3 with wir\$3 | USPAT | OR | ON | 2008/07/29 17:27 |
| S109 | 157 | (interposer or transparent \$3 or translucent\$3 or glass) with (substrate or lid or cap) and (substrate or cap or lid) with (chip or dice or die or IC or semiconductor) with cover \$3 with side with wir\$3 | USPAT | OR | ON | 2008/07/29 17:28 |
| S110 | 14 | ("5397918" "5650592" "5753857" "5773879" "5804870" "5877546" "6057597" "6130448" "6204454" "6232652" "6294831" "6313521" "6317326" "6531784"). PN. OR ("6967400").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 17:33 |
| S111 | 46 | (interposer or transparent \$3 or translucent\$3 or glass) with (substrate or lid or cap) and (substrate or cap or lid) with (chip or dice or die or IC or semiconductor) with cover \$3 with side with lead | USPAT | OR | ON | 2008/07/29 17:40 |
| S112 | 30 | (interposer or transparent \$3 or translucent\$3 or glass) with (substrate or lid or cap) and (substrate or cap or lid) with (chip or dice or die or IC or semiconductor) with (around\$3 or surround\$3) with side with lead | USPAT | OR | ON | 2008/07/29 17:42 |
| S113 | 30 | (interposer or transparent \$3 or translucent\$3 or glass) with (substrate or lid or cap) and (substrate or cap or lid) with (chip or dice or die or IC or semiconductor) with (around\$3 or surround\$3) with side with lead | USPAT | OR | ON | 2008/07/29 17:44 |

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| S114 | 41 | (interposer or transparent \$3 or translucent\$3 or glass) with (substrate or lid or cap) and (substrate or cap or lid) with (chip or dice or die or IC or semiconductor) with (around\$3 or surround\$3) with side\$7 with wire | USPAT | OR | ON | 2008/07/29 17:44 |
| S115 | 71 | (interposer or transparent \$3 or translucent\$3 or glass) with (substrate or lid or cap) and (substrate or cap or lid) with (chip or dice or die or IC or semiconductor) with (cover \$3) with side\$7 with wire | USPAT | OR | ON | 2008/07/29 17:47 |
| S116 | 1156 | (interposer or transparent \$3 or translucent\$3 or glass) with (substrate or lid or cap) and (substrate or cap or lid) with (chip or dice or die or IC or semiconductor) with (cover \$3) with side\$7 | USPAT | OR | ON | 2008/07/29 17:50 |
| S117 | 7 | ("20040018662" "5729038" "6472247" "6498115").PN. OR ("6873034").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 20:59 |
| S118 | 12 | ("20020030261" "5523608" "6072233" "6077724" "6118176" "6118184" "6133067" "6201302" "6268648" "6297547" "6414381" "6459039").PN. OR ("7211883").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 21:00 |
| S119 | 56 | ("4663833" "4894707" "5079190" "5220198").PN. OR ("5523608").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 21:00 |
| S120 | 2 | ("2002/0088987").URPN. | USPAT | OR | OFF | 2008/07/29 21:12 |
| S121 | 1 | "20070111567" | US-PGPUB; USPAT | OR | OFF | 2008/07/29 21:14 |
| S122 | 102 | 257/E21.511 | US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:16 |

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| S123 | 26 | 257/E21.519 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:21 |
| S124 | 11 | 257/E23.133 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:21 |
| S125 | 40 | 257/E27.15 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:22 |
| S126 | 2979 | 439/108 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:23 |
| S127 | 37 | 257/E31.117 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:26 |
| S128 | 4 | 257/E31.111 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:27 |
| S129 | 18 | 257/E23.012 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:27 |
| S130 | 3579 | 257/784 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:29 |

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| S131 | 5582 | 257/666 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:48 |
| S132 | 3491 | 257/690 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 21:50 |
| S133 | 2161 | 257/693 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 22:19 |
| S134 | 1340 | 257/696 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 22:39 |
| S135 | 3439 | 257/692 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 22:47 |
| S136 | 277 | 257/694 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 22:55 |
| S137 | 319 | 257/695 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 22:57 |
| S138 | 5108 | 257/686 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 23:00 |

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| S139 | 6755 | 257/778 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 23:01 |
| S140 | 1590 | 257/781 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 23:03 |
| S141 | 4523 | 257/777 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/07/29 23:06 |
| S142 | 38 | 257/E31.117 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 14:48 |
| S143 | 5 | 257/E31.111 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 14:48 |
| S144 | 18 | 257/E23.012 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 14:49 |
| S145 | 5598 | 257/666 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 14:49 |
| S146 | 3507 | 257/690 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 14:56 |

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| S147 | 3442 | 257/692 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 15:30 |
| S148 | 2162 | 257/693 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 16:55 |
| S149 | 2 | "4743868".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 17:06 |
| S150 | 277 | 257/694 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 19:26 |
| S151 | 320 | 257/695 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 20:15 |
| S152 | 1341 | 257/696 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/08/11 20:17 |
| S153 | 0 | (chip) and wire with coat \$3 same improv\$3 | USPAT | OR | OFF | 2008/08/11 20:19 |
| S154 | 0 | (chip or die) and wire with coat\$3 same improv\$3 | USPAT | OR | OFF | 2008/08/11 20:19 |
| S155 | 699 | (chip or die) and wire with coat\$3 same improv\$3 | USPAT | OR | OFF | 2008/08/11 20:19 |
| S156 | 170 | (chip) and wire with coat \$3 same improv\$3 | USPAT | OR | OFF | 2008/08/11 20:19 |
| S157 | 153 | radiation near detector with module | USPAT | OR | OFF | 2008/08/11 20:30 |
| S158 | 15 | photon near detector with module | USPAT | OR | OFF | 2008/08/11 20:34 |
| S159 | 221 | radiation near detector with module | USPAT | OR | ON | 2008/08/11 20:38 |

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|------|-----|--|---|----|-----|---------------------|
| S160 | 219 | S159 not S158 | USPAT | OR | ON | 2008/08/11 20:38 |
| S161 | 68 | S159 not S157 | USPAT | OR | ON | 2008/08/11 20:38 |
| S162 | 351 | radiation near detector same module | USPAT | OR | ON | 2008/08/11 20:48 |
| S163 | 130 | S162 not S159 | USPAT | OR | ON | 2008/08/11 20:48 |
| S164 | 65 | 257/E31.117 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:25 |
| S165 | 9 | 257/E31.111 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:26 |
| S166 | 34 | 257/E23.012 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:26 |
| S167 | 178 | 257/E21.511 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:27 |
| S168 | 37 | 257/E21.519 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:27 |
| S169 | 21 | 257/E23.133 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:29 |
| S170 | 58 | 257/E27.15 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:29 |

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|------|------|---------|---|----|-----|---------------------|
| S171 | 4501 | 438/108 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:30 |
| S172 | 2506 | 438/109 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:33 |
| S173 | 5894 | 257/666 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/02 18:54 |

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